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PATENT  
ATTORNEY DOCKET NO. A21-535.1007  
07148/032001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Lorin R. DeBonte et al.                      Art Unit: 1649  
Serial No.: 08/572,027                                      Examiner: G. Benzion  
Filed : 12/14/95  
Title : PLANTS HAVING MUTANT SEQUENCES THAT CONFER ALTERED  
FATTY ACID PROFILES

Assistant Commissioner for Patents  
Washington, DC 20231

RESPONSE

In response to the office action of December 23, 1997,  
please amend the application as follows:

In the specification

At page 11, line 32, please delete "on" and insert  
therefor --as--.

At page 14, line 9, please delete "WO 94/115116" and  
insert therefor --WO 94/11516--.

At page 15, line 9, please delete "WO 94/115116" and  
insert therefor --WO 94/11516--.

In the claims

Please cancel claims 4, 11-26, 30 and 36 without  
prejudice to further prosecution.

Please amend the claims as follows:

1. (~~Amended~~) An isolated nucleic acid fragment  
comprising a sequence of at least about 20 nucleotides from a  
*Brassicaceae* or *Helianthus* delta-12 fatty acid desaturase gene  
having at least one mutation in a region of said desaturase gene  
encoding a His-Xaa-Xaa-Xaa-His amino acid motif, wherein said at  
least one mutation is effective for altering the fatty acid

Date of Deposit April 21, 1998  
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Chantal R. Billadeau  
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